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6 22
Claim 9 (added):

The stepping motor of claim 1, wherein each stator pole piece further includes a notched portion having three raised teeth, and each stator pole piece overlaps at least four rotor poles.

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Claim 10 (added):

The stepping motor of claim 1, wherein each stator pole piece further includes a notched portion having three raised teeth, and each stator pole piece overlaps at least five rotor poles.

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Claim 11 (added):

A magnet type stepping motor comprising:

a stator having three-phase stator windings and $6m$ stator pole pieces, where m is an integer and ≥ 1 , the stator windings of one phase being wound around a first stator pole piece and every third stator pole piece among the $6m$ the stator pole pieces, wherein when the stator windings of one phase are excited with a direct current, m pieces of N pole and m pieces of S pole are formed alternately on the $6m$ stator pole pieces; and

a rotor of a cylindrical permanent magnet magnetized along the circumference so as to form a plurality of continuously alternating N and S rotor poles, wherein the number of N rotor poles equals the number of S rotor poles.

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Claim 12 (added):

The stepping motor of claim 11, wherein each stator pole piece further includes a notched portion having at least two raised teeth, and the arcuate width of each pole piece notched portion is at least the arcuate width of three proximate rotor poles.

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Claim 13 (added):

The stepping motor of claim 11, wherein each stator pole piece further includes a notched portion having three raised teeth, and the arcuate width of each pole piece notched portion is at least the arcuate width of five proximate rotor poles.

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Claim 14 (added):

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The stepping motor of claim 11, wherein each stator pole piece further includes a notched portion having three raised teeth, and each stator pole piece overlaps at least four rotor poles.

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Claim 15 (added):

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The stepping motor of claim 11, wherein each stator pole piece further includes a notched portion having three raised teeth, and each stator pole piece overlaps at least five rotor poles.

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Claim 16 (added):

A magnet type stepping motor comprising:

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a stator having three-phase stator windings and twelve stator pole pieces, the stator windings of one phase being wound around a first stator pole piece and every third stator pole piece among the twelve the stator pole pieces, wherein when the stator windings of one phase are excited with a direct current, two pieces of N pole and two pieces of S pole are formed alternately on the twelve stator pole pieces; and

a rotor of a cylindrical permanent magnet magnetized along the circumference so as to form alternating N and S rotor poles, wherein the number of N rotor poles equals the number of S rotor poles.